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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/606,284	06/25/2003	Pauli Seppinen	944-003.151-1 3300	
4955	7590 09/26/2006		EXAMINER	
	ESSOLA VAN DER SL	YUN, EUGENE		
ADOLPHSC BRADFORI	ON, LLP O GREEN, BUILDING 5	ART UNIT	PAPER NUMBER	
755 MAIN STREET, P O BOX 224 MONROE, CT 06468			2618	
			DATE MAILED: 09/26/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

			Application No.	Applicant(s)	Applicant(s)			
Office Action Summary			10/606,284	10/606,284 SEPPINEN ET AL.				
			Examiner	Art Unit				
			Eugene Yun	2618				
Period fo	The MAILING DATE of this commu or Reply	nication app	ears on the cover sheet	with the correspondence a	ddress			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD IN CHEVER IS LONGER, FROM THE IN INSIGN SOLVER IS LONGER, FROM THE IN INSIGN SOLVER IS LONGER, FROM THE INSIGN SOLVER IS LONGER IN INSIGN SOLVER IN INS	MAILING DA s of 37 CFR 1.13 munication. statutory period w y will, by statute,	ATE OF THIS COMMUNI 6(a). In no event, however, may fill apply and will expire SIX (6) M cause the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this of ABANDONED (35 U.S.C. § 133).				
Status								
1)⊠	Responsive to communication(s) fil	ed on <u>08 Se</u>	eptember 2006.					
2a) <u></u> □	This action is FINAL .	2b) This	action is non-final.					
3)	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims							
4)⊠	4) Claim(s) 1-16 is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1-16</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)[Claim(s) are subject to restri	ction and/or	election requirement.					
Applicati	on Papers							
9)[The specification is objected to by the	ne Examiner	•.					
10)⊠ The drawing(s) filed on <u>25 June 2003</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.								
	Applicant may not request that any object	ection to the o	drawing(s) be held in abey	ance. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including	g the correcti	on is required if the drawir	ng(s) is objected to. See 37 C	FR 1.121(d).			
11)	The oath or declaration is objected t	o by the Exa	aminer. Note the attach	ed Office Action or form P	TO-152.			
Priority ι	ınder 35 U.S.C. § 119							
	Acknowledgment is made of a claim ☐ All b)☐ Some * c)☐ None of:	for foreign	priority under 35 U.S.C	. § 119(a)-(d) or (f).				
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority			·· ——				
	3. Copies of the certified copies	•	*	en received in this National	l Stage			
	application from the Internation		, , , ,					
* 8	see the attached detailed Office action	on for a list (or the certified copies no	ot received.				
Attachmen	t(s)							
1) 🔯 Notic	e of References Cited (PTO-892)			v Summary (PTO-413)				
	e of Draftsperson's Patent Drawing Review (I			o(s)/Mail Date f Informal Patent Application				
	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date		6) Other: _					

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DETAILED ACTION

Response to Amendment

1. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bridgelall (US 6,717,516) in view of Hall et al. (US 2004/0203352).

Referring to Claim 1, Bridgelall teaches a transceiver for use in an electronic device wherein said transceiver adapts itself to operate as an RF tag reader 44 (fig. 2) or as a Bluetooth transceiver 42 (fig. 2) by changing its reception and transmission capabilities (see col. 5, lines 1-15).

Bridgelall does not teach a single antenna usable for said transceiver operating as said RF tag reader or said Bluetooth transceiver. Hall teaches a single antenna (see last 7 lines pf paragraph [0008]) usable for said transceiver operating as said RF tag reader or said Bluetooth transceiver (see paragraph [0025] and 4 and 5 of fig. 1). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teachings of Hall to said device of Bridgelall in order to reduce the cost and hassle of carrying two separate devices.

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Referring to Claim 2, Bridgelall also teaches said Bluetooth transceiver is useable as a transceiver for a 2.4 GHz ISM band RF tag reader system (see col. 5, lines 1-15).

Referring to Claim 3, Bridgelall also teaches an integrated circuit (see 58 in fig. 2).

Referring to Claim 4, Bridgelall also teaches a mobile terminal (fig. 1).

Referring to Claim 5, Bridgelall teaches a radio device having a radio receiver and a radio transmitter wherein operability of said device is in two modes (see col. 5, lines 1-15), a Bluetooth mode 42 (fig. 2) and an RF tag reader mode 44 (fig. 2), said radio receiver and said radio transmitter comprising a single transceiver that adapts itself to operate as a Bluetooth transceiver in said Bluetooth mode and an RF-tag reader in said RF tag reader mode by changing its reception and transmission capabilities (see col. 5, lines 1-15).

Bridgelall does not teach using a single antenna in an RF-tag reader mode or Bluetooth mode. Hall teaches using a single antenna (see last 7 lines of paragraph [0008]) in an RF-tag reader mode or Bluetooth mode (see paragraph [0025] and 4 and 5 of fig. 1). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teachings of Hall to said device of Bridgelall in order to reduce the cost and hassle of carrying two separate devices.

Referring to Claim 6, Bridgelall also teaches said operability of said radio device in either mode is by using said radio receiver and said radio transmitter (see col. 5, lines 1-15).

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Referring to Claim 7, Bridgelall also teaches said radio device incorporated in a device having additional device functionality (see col. 5, lines 29-46).

Referring to Claim 8, Bridgelall also teaches the device in which said radio device is incorporated comprising a mobile telephone (see 24, 26, and 28 in fig. 1).

Referring to Claim 9, Bridgelall also teaches said radio device installed in a mobile telephone (see 24, 26, and 28 in fig. 1).

Referring to Claim 10, Bridgelall teaches a radio device having a radio receiver 38 and 34 (fig. 2), a radio transmitter 38 and 34 (fig. 2), and a signal processor 50 (fig. 2), wherein the radio receiver is responsive to an incoming analog radio signal for providing a down converted and modulated signal to said signal processor, wherein the radio transmitter is responsive to an output signal from said signal processor for transmission as an outgoing analog radio signal (see col. 6, lines 37-60), said device further comprising control logic for controlling said radio device in two modes, a first mode for operating as a Bluetooth device and a second mode for operating as an RF tag reader (see col. 6, lines 60-67 and col. 7, lines 1-3), wherein said radio receiver and said radio transmitter comprises a single transceiver that adapts itself to operate as an RF tag reader or as a Bluetooth transceiver by changing its reception and transmission capabilities (see col. 5, lines 1-15).

Bridgelall does not teach a single antenna usable for said transceiver operating as said RF tag reader or said Bluetooth transceiver. Hall teaches a single antenna (see last 7 lines pf paragraph [0008]) usable for said transceiver operating as said RF tag reader or said Bluetooth transceiver (see paragraph [0025] and 4 and 5 of fig. 1).

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Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teachings of Hall to said device of Bridgelall in order to reduce the cost and hassle of carrying two separate devices.

Referring to Claim 11, Bridgelall teaches control logic for controlling a radio device in two modes, a first mode for operating as a Bluetooth device 42 (fig. 2) and a second mode to operating as an RF tag reader 44 (fig. 2) wherein said radio device comprises a single transceiver that adapts itself to operate as said RF tag reader or as a Bluetooth transceiver by changing its reception and transmission capabilities (see col. 5, lines 1-15).

Bridgelall does not teach a single antenna usable for said transceiver operating as said RF tag reader or said Bluetooth transceiver. Hall teaches a single antenna (see last 7 lines pf paragraph [0008]) usable for said transceiver operating as said RF tag reader or said Bluetooth transceiver (see paragraph [0025] and 4 and 5 of fig. 1). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teachings of Hall to said device of Bridgelall in order to reduce the cost and hassle of carrying two separate devices.

Referring to Claim 12, Bridgelall also teaches means for communicating with a radio access network over a radio interface (see 214 of fig. 4).

Referring to Claim 13, Bridgelall also teaches a signal processor 50 (fig. 2) and a mobile telephone transceiver 28 (fig. 1).

Referring to Claim 14, Bridgelall teaches a method comprising:

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Switching a mode of a single transceiver able to operate as an RF tag reader 44 (fig. 2) in one mode and as a Bluetooth transceiver 42 (fig. 2) in another mode by changing reception and transmission capabilities of said single transceiver (see col. 5, lines 1-15).

Bridgelall does not teach a single antenna usable for said transceiver operating as said RF tag reader or said Bluetooth transceiver. Hall teaches a single antenna (see last 7 lines pf paragraph [0008]) usable for said transceiver operating as said RF tag reader or said Bluetooth transceiver (see paragraph [0025] and 4 and 5 of fig. 1). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teachings of Hall to said device of Bridgelall in order to reduce the cost and hassle of carrying two separate devices.

Referring to Claim 15, Bridgelall also teaches said single transceiver is both for interrogating an RF tag and for participating in a Bluetooth piconet (see col. 5, lines 1-15).

Referring to Claim 16, Bridgelall also teaches a single transceiver and single antenna for use in a mobile telephone 28 (fig. 1) and operating a mobile telephone transceiver of said mobile telephone over a radio interface to a radio access network (see 214 of fig. 4).

Response to Arguments

4. Applicant's arguments with respect to claims 1-16 have been considered but are moot in view of the new ground(s) of rejection.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eugene Yun whose telephone number is (571) 272-7860. The examiner can normally be reached on 9:00am-6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew D. Anderson can be reached on (571)272-4177. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Eugene Yun Examiner Art Unit 2618

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MATTHEW ANDERSON SUPERVISORY PATENT EXAMINER